

# Comparisons of Job Characteristics

**Focus Occupation:** [Architectural and Engineering Managers \(11-9041\)](#)

**Associated Occupation:** [Architects, Except Landscape and Naval \(17-1011\)](#)

[Compare Knowledge](#)

[Compare Skills](#)

[Compare Abilities](#)

[Compare Detailed Work Activities](#)

[Compare Tools and Technologies](#)

<<	Focus occupation element is much lower
<	Focus occupation element is lower
0	Focus occupation element is at a similar level
>	Focus occupation element is at a higher level
>>	Focus occupation element is at a much higher level

## Knowledge

Similarity of Focus Occupation to Associated Occupation: 73

**Focus Occupation:** Architectural and Engineering Managers (11-9041)

**Associated Occupation:** Architects, Except Landscape and Naval (17-1011)

Associated Occupation's Key Knowledge Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating		Evaluation of Focus Occupation
Design	5.2	25.0	19.0	<<	Extensive education and/or training may be required
Building and Construction	4.0	22.4	10.7	<<	Extensive education and/or training may be required
Engineering and Technology	5.7	20.3	23.2	>	Current knowledge level is likely sufficient
Administration and Management	8.4	14.9	14.4	0	Current knowledge level may be sufficient
Public Safety and Security	6.9	14.2	10.0	<<	Extensive education and/or training may be required
Sales and Marketing	5.2	14.0	9.2	<<	Extensive education and/or training may be required
Law and Government	5.9	13.4	8.6	<<	Extensive education and/or training may be required
Production and Processing	6.0	11.4	10.7	0	Current knowledge level may be sufficient
Fine Arts	2.2	10.4	1.2	<<	Extensive education and/or training may be required
Personnel and Human Resources	5.6	9.8	10.4	0	Current knowledge level may be sufficient
Sociology and Anthropology	4.1	9.6	3.4	<<	Extensive education and/or training may be required
Geography	3.9	8.2	5.7	<<	Extensive education and/or training may be required
History and Archeology	2.6	7.2	1.6	<<	Extensive education and/or training may be required

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O\*NET (Occupation Information Network) data.

## Skills

Similarity of Focus Occupation to Associated Occupation: 93

**Focus Occupation: Architectural and Engineering Managers (11-9041)**  
**Associated Occupation: Architects, Except Landscape and Naval (17-1011)**

Associated Occupation's Key Skills Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating		Evaluation of Focus Occupation
Critical Thinking	10.8	15.5	12.8	<	A higher skill level may be required
Judgment and Decision Making	9.4	14.6	12.5	<	A higher skill level may be required
Complex Problem Solving	9.1	14.5	13.0	<	A higher skill level may be required
Operations Analysis	5.0	12.7	13.9	0	Current skill level may be sufficient
Coordination	9.1	12.6	13.3	0	Current skill level may be sufficient
Mathematics	6.2	11.7	11.7	0	Current skill level may be sufficient
Negotiation	6.8	10.8	10.2	0	Current skill level may be sufficient
Management of Financial Resources	3.3	9.5	9.7	0	Current skill level may be sufficient
Management of Material Resources	3.7	8.8	9.2	0	Current skill level may be sufficient

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O\*NET (Occupation Information Network) data.

## Abilities

Similarity of Focus Occupation to Associated Occupation: 92

**Focus Occupation: Architectural and Engineering Managers (11-9041)**  
**Associated Occupation: Architects, Except Landscape and Naval (17-1011)**

Associated Occupation's Key Abilities Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating		Evaluation of Focus Occupation
Visualization	7.5	16.9	10.1	<<	Extensive improvement in abilities may be required
Deductive Reasoning	10.6	16.5	13.9	<	Some improvement in abilities may be required
Near Vision	11.1	15.7	12.5	<<	Extensive improvement in abilities may be required
Problem Sensitivity	11.1	15.5	13.9	<	Some improvement in abilities may be required
Fluency of Ideas	7.6	15.2	10.1	<<	Extensive improvement in abilities may be required
Originality	7.6	15.0	10.5	<<	Extensive improvement in abilities may be required
Information Ordering	9.9	14.8	12.0	<	Some improvement in abilities may be required
Category Flexibility	9.0	13.9	11.4	<	Some improvement in abilities may be required
Number Facility	6.3	13.4	11.2	<	Some improvement in abilities may be required
Far Vision	7.8	13.0	8.4	<<	Extensive improvement in abilities may be required

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O\*NET (Occupation Information Network) data.

## Activities that Both Occupations Have in Common

Similarity of Focus  
Occupation to Associated  
Occupation: 81

**Focus Occupation: Architectural and Engineering Managers (11-9041)**  
**Associated Occupation: Architects, Except Landscape and Naval (17-1011)**

Work Activities	Exclusivity of Activity
Advise clients or customers	19
Advise clients regarding engineering problems	67
Analyze project proposal to determine feasibility, cost, or time	69
Bid engineering, construction or extraction projects	80
Communicate technical information	4
Confer with engineering, technical or manufacturing personnel	25
Coordinate engineering project activities	71
Delegate authority for engineering activities	73
Develop policies, procedures, methods, or standards	21
Direct and coordinate activities of workers or staff	3
Direct personnel in support of engineering activities	74
Estimate cost for engineering projects	69
Estimate time needed for project	64
Evaluate costs of engineering projects	70
Evaluate engineering data	60
Lead teams in engineering projects	73
Make presentations	13
Manage contracts	73
Prepare reports	8
Prepare technical reports or related documentation	22
Read blueprints	10
Read technical drawings	7
Resolve engineering or science problems	46
Understand engineering data or reports	48
Use project management techniques	47
Use scientific research methodology	21
Use technical regulations for engineering problems	61
Write business project or bid proposals	48

Not all positions in these occupations will necessarily perform all of the listed activities. The exclusivity rating is an indication of how unique the activity is amongst all occupations. The maximum rating is 100. High scores indicate that only a small number of occupations engage in that activity.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O\*NET (Occupation Information Network) data.

## Tools and Technologies that Both Occupations Have in Common

Similarity of Focus  
Occupation to Associated  
Occupation: 60

**Focus Occupation: Architectural and Engineering Managers (11-9041)**  
**Associated Occupation: Architects, Except Landscape and Naval (17-1011)**

Tools and Technologies	Exclusivity
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Business function specific software	1
Computers	1
Content authoring and editing software	1
Content management software	6
Data management and query software	1
Finance accounting and enterprise resource planning ERP software	2
Industry specific software	1
Information exchange software	1
Network applications software	1

Not all positions in these occupations will necessarily use all of the listed tools and technologies. The exclusivity rating is an indication of how unique the tool or technology is amongst all occupations. The maximum rating is 100. High scores indicate that only a small number of occupations use that tool or technology.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O\*NET (Occupation Information Network) data.